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4/28/11

1. One of the observations made to determine that Eukaryotic cells were first formed through endosymbiosis is the observable similarities between mitochondria and prokaryotic cells. Moreover it has been observed that bacteria can live inside organisms and continue to function.
2. It was inferred that mitochondria and chloroplasts were once free-living organisms that were eaten by ancient eukaryotes and eventually formed symbiotic relationships. Eukaryotes later adapted to live off of the mitochondria.
3. It was hypothesized that two independent organisms can become a single organism. This was formed from the ideas that organisms can ~~live~~ live off of other organisms and become dependent on each other. didn't they see this happen in an experiment?
4. The strongest aspect of this theory is that endosymbiosis was observed in Kwang Jeon's experiment.
5. The weakest aspect of this theory is that ~~there~~ there are other possibilities besides endosymbiosis that can account for the mitochondria's special properties, that were not discussed. For example mitochondria could have developed a membrane and DNA from other environmental stresses while in the Eukaryotic cells. Good link to prior knowledge
6. I think that the theory of endosymbiosis is an explanation for the creation of ~~eukarotes~~ eukarotes as a relatively ~~plausible~~ reasonable theory. I think this because there is ~~a~~ strong evidence supporting the theory and few ideas that will disprove it.

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7. I propose to accept this theory, based on the several pieces of evidence that support it. For example, the similarities between mitochondria and prokaryotic cells and the fact that this theory was shown in amoebas.